C8C

0941.65074

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Chikayoshi Kamata
Serial No.:	09/748,919
Conf. No.:	5081
Filed:	12/27/2000
For:	A MAGNETO-RESISTIVE MAGNETIC SENSOR...
Art Unit:	2652
Examiner:	Renner, Craig A.
Patent:	6,954,341
Issued:	Oct. 11, 2005

I hereby certify that this paper is being deposited with the United States Postal Service as FIRST-CLASS mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date.

22 Feb 06

Date *Registration No. 29,367*
Attorney for Applicant

REQUEST FOR CERTIFICATE OF CORRECTION UNDER RULE 322

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
ATTN: Certificate of Corrections Branch

Dear Sir:

In accordance with 37 C.F.R. § 1.322, patentees, through their attorneys, respectfully request that a Certificate of Correction be issued in the above-referenced patent.

The errors occurred as a result of mistakes on the part of the Patent and Trademark Office and the changes include the following:

In the Claims:

Col. 11, line 10, insert --to-- between "response" and "an" (Amend. E, p. 8).

Col. 12, line 12, insert --substantially entirely-- between "is and "interposed" (Amend. E, p. 9).

Col. 12, line 12, insert --in an area-- between "interposed" and "between" (Amend. E, p. 9).

REMARKS

A Certificate of Correction incorporating the delineated change is enclosed in duplicate herewith. Since the mistakes were on the part of the Patent and Trademark Office, a Certificate of Correction should be issued without expense to the patentee and such is respectfully requested.

Respectfully submitted,

GREER, BURNS & CRAIN, LTD.

By 

Patrick G. Burns
Registration No. 29,367

February 22, 2006

300 South Wacker Drive
Suite 2500
Chicago, Illinois 60606
Telephone: 312.360.0080
Facsimile: 312.360.9315

Customer No. 24978

PTO/SB/44 (02-01)
Approved for use through 01/31/2004. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO : 6,954,341
DATED : Oct. 11, 2005
INVENTOR(S) : Kamata et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims:

Col. 11, line 10, insert --to-- between "response" and "an".

Col. 12, line 12, insert --substantially entirely-- between "is and "interposed".

Col. 12, line 12, insert --in an area-- between "interposed" and "between".

MAILING ADDRESS OF SENDER:
Patrick G. Burns
GREER, BURNS & CRAIN, LTD.
300 South Wacker Drive, Suite 2500
Chicago, IL 60606

PATENT NO 6,954,341
No. of additional copies 1

PTO/SB/44 (02-01)
Approved for use through 01/31/2004. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO : 6,954,341
DATED : Oct. 11, 2005
INVENTOR(S) : Kamata et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims:

Col. 11, line 10, insert --to-- between "response" and "an".

Col. 12, line 12, insert --substantially entirely-- between "is and "interposed".

Col. 12, line 12, insert --in an area-- between "interposed" and "between".

MAILING ADDRESS OF SENDER:
Patrick G. Burns
GREER, BURNS & CRAIN, LTD.
300 South Wacker Drive, Suite 2500
Chicago, IL 60606

PATENT NO 6,954,341
No. of additional copies 1

20. (Previously Presented) A magneto-resistive magnetic sensor as claimed in Claim 13, wherein said pair of magnetic regions has a coercive force exceeding a coercive force of a ferromagnetic layer used in said magneto-resistive structure as a free layer.

21. (Previously Presented) A magneto-resistive magnetic sensor as claimed in Claim 20, wherein said magnetic regions are domain-controlling magnetic regions.

22. (Currently Amended) A magneto-resistive magnetic sensor, comprising:

a magneto-resistive structure changing a resistance thereof in response to an external magnetic field,

a cap layer, provided on a top surface of said magneto-resistive structure;

a pair of domain-controlling magnetic regions disposed at both lateral sides of said magneto-resistive structure, said domain-controlling magnetic regions having a magnetization pointing in a common direction;

a pair of electrodes provided on said pair of domain-controlling magnetic regions so as to extend on a top surface of said magneto-resistive structure and so

as to oppose each other across a central part of said magneto-resistive structure, said electrodes having respective overhang parts extending over said magneto-resistive structure so as to oppose each other with a gap therebetween, said pair of electrodes injecting a sensing current into said magneto-resistive structure primarily via said top surface of said magneto-resistive structure,

wherein each of said overhang parts covers said cap layer on said magneto-resistive structure in such a state that an oxidation-resistant conductive layer is substantially entirely interposed in an area between said cap layer and said overhang part, and

said pair of domain-controlling magnetic regions having a coercive force exceeding a coercive force of a ferromagnetic layer used in said magneto-resistive structure as a free layer.